Hydrazine

CAS 302-01-2

Current North Carolina AAL = 0.0006 mg/m^3 (24 hour, chronic toxicant)

AAL Documentation

The 1977 ACGIH TLV value for hydrazine was 0.1 PPM (equivalent to 0.1 mg/m^3).

A factored TLV approach was used to derive a 24 hour chronic AAL for hydrazine.

In accordance with guidance provided by the North Carolina Academy of Sciences (1986/1987), the following uncertainty factors were used:

- Population variability : Factor of 10
- Time conversion (8 hour work day to continuous exposure): Factor of 4.
- Experimental uncertainty associated with chronic studies: Factor of 2.
- Severity of effect: Factor of 2 (hydrazine is a confirmed animal carcinogen with unknown relevance to humans)

Total multiplicative uncertainty factor = 10 x 4 x 2 x 2 = 160

$$\text{mg/m}^3 \text{ hydrazine} = \frac{0.1 \text{ mg/m}^3}{160}$$

$$= 0.0006 \text{ mg/m}^3$$

This information has been reconstructed using the decision matrix established by the North Carolina Academy of Sciences Air Toxics Panel, September, 1986.

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